## 1. A compound of the formula

$$A^{1}-Z_{2}-Z_{1}$$

$$R^{C}$$

$$X_{1}$$

$$X_{2}$$

$$X_{2}$$

$$(CH_{2})_{n}COR^{b}$$

or a pharmaceutically acceptable salt thereof, wherein



is a 4-8 membered monocyclic ring or 7-12 membered bicyclic ring; which ring is optionally saturated or unsaturated, which ring is optionally substituted with one or more substituent selected from the group consisting of alkyl, haloalkyl, aryl, heteroaryl, halogen, alkoxyalkyl, aminoalkyl, hydroxy, nitro, alkoxy, hydroxyalkyl, thioalkyl, amino, alkylamino, arylamino, alkylsulfonamide, acyl, acylamino, alkylsulfone, sulfonamide, allyl, alkenyl, methylenedioxy, ethylenedioxy, alkynyl, carboxamide, cyano, and -(CH<sub>2</sub>)<sub>n</sub> COR wherein n is 0-2 and R is hydroxy, alkoxy, alkyl or amino;

A<sup>1</sup> is a 5-9 membered monocyclic or 7-14 membered polycyclic heterocycle of the formula

20

5

10

15

containing at least one nitrogen atom and optionally 1 to 4 heteroatoms or groups, selected from O, N, S,  $SO_2$  or CO; optionally saturated or unsaturated; optionally substituted by one or more  $R^k$  selected from the group consisting of hydroxy, alkyl, alkoxy, alkoxyalkyl, thioalkyl, haloalkyl, cyano, amino, alkylamino, halogen,

acylamino, sulfonamide and -COR wherein R is hydroxy, alkoxy, alkyl or amino;

include the following heterocyclic ring systems containing at least one nitrogen atom:

10

5

wherein  $Z_a$  is H, alkyl, alkoxy, hydroxy, amine, alkylamine, dialkylamine, carboxyl, alkoxycarbonyl, hydroxyalkyl, halogen or haloalkyl and  $R^1$  is H, alkyl, alkoxyalkyl, acyl, haloalkyl or alkoxycarbonyl, pyridylamino, imidazolylamino, morpholinopyridine, tetrahydronaphthyridine, oxazolylamino, thiazolylamino, pyrimidinylamino, quinoline, isoquinoline, tetrahydroquinoline, imidazopyridine, benzimidazole, pyridone or quinolone;

15

The following heteroaryls include the ring systems described above;

for the pyridyl derived heterocycle, the substituents  $X_4$  and  $X_5$  are selected from the group consisting of H, alkyl, branched alkyl, alkylamino, alkoxyalkylamino, haloalkyl, thioalkyl, halogen, amino, alkoxy, aryloxy, alkoxyalkyl, hydroxy, cyano or acylamino groups; substituents  $X_4$  and  $X_5$  can be methyl, methoxy, amine, methylamine, trifluoromethyl, dimethylamine, hydroxy, chloro, bromo, fluoro and cyano.  $X_6$  may be H, alkyl, halogen, alkoxy, hydroxy, and haloalkyl; the pyridyl ring can be fused with a 4 - 8 membered ring, optionally saturated or unsaturated; these ring systems include tetrahydronaphthyridine, quinoline, tetrahydroquinoline, azaquinoline, morpholinopyridine, imidazo-pyridine; the monocyclic ring systems such as imidazole, thiazole, oxazole, pyrazole may contain an amino or alkylamino substituent at any position within the ring;

5

10

when  $Z_1$  of Formula I is CO or  $SO_2$ , the linkage  $A^1$ - $Z_2$  of Formula I includes the heterocycle derived ring systems: pyridine, imidazole, thiazole, oxazole, benzimidazole, imidazopyridine and heterocycles for  $A^1$ - $Z_2$  include :

5

$$B = NH, O, S$$

$$R = H, Me$$

$$B = NH, O, S$$

$$R = H, Me$$

$$B = NH, O, S$$

$$R = H, Me$$

$$B = NH, O, S$$

$$R = H, Me$$

$$B = NH, O, S$$

$$R = H, Me$$

wherein X<sub>4</sub> is as defined above.

10 or  $A^1$  is

$$-N \qquad N-R^{7}$$

$$R^{5} \qquad R^{8}$$

wherein Y<sup>1</sup> is selected from the group consisting of N-R<sup>2</sup>, O, and S;

R<sup>2</sup> is selected from the group consisting of H; alkyl; aryl; hydroxy; alkoxy; cyano; alkenyl; alkynyl; amido; alkylcarbonyl; arylcarbonyl; alkoxycarbonyl; aryloxycarbonyl; haloalkylcarbonyl; haloalkoxycarbonyl; alkylthiocarbonyl; arylthiocarbonyl; acyloxymethoxycarbonyl;

10

25

R<sup>2</sup> taken together with R<sup>7</sup> forms a 4-12 membered dinitrogen containing heterocycle optionally substituted with one or more substituent selected from the group consisting of lower alkyl, thioalkyl, alkylamino, hydroxy, keto, alkoxy, halo, phenyl, amino, carboxyl or carboxyl ester, and fused phenyl;

or R<sup>2</sup> taken together with R<sup>7</sup> forms a 4-12 membered heterocycle containing one or more heteroatom selected from O, N and S optionally unsaturated;

or R<sup>2</sup> taken together with R<sup>7</sup> forms a 5 membered heteroaromatic ring fused with a aryl or heteroaryl ring;

R<sup>7</sup> (when not taken together with R<sup>2</sup>) and R<sup>8</sup> are independently
selected from the group consisting of H; alkyl; alkenyl; alkynyl;
aralkyl; amino; alkylamino; hydroxy; alkoxy; arylamino; amido,
alkylcarbonyl, arylcarbonyl; alkoxycarbonyl; aryloxy; aryloxycarbonyl;
haloalkylcarbonyl; haloalkoxycarbonyl; alkylthiocarbonyl;
arylthiocarbonyl; acyloxymethoxycarbonyl; cycloalkyl; bicycloalkyl;
aryl; acyl; benzoyl;

or NR<sup>7</sup> and R<sup>8</sup> taken together form a 4-12 membered mononitrogen containing monocyclic or bicyclic ring optionally substituted with one or more substituent selected from lower alkyl, carboxyl derivatives, aryl or hydroxy and wherein said ring optionally contains a heteroatom selected from the group consisting of O, N and S;

R<sup>5</sup> is selected from the group consisting of H and alkyl;

10

15

20

25

wherein  $Y^2$  is selected from the group consisting of alkyl; cycloalkyl; bicycloalkyl; aryl; monocyclic heterocycles;

 $Z_2$  is a 1-5 carbon linker optionally containing one or more heteroatom selected from the group consisting of O, S and N; alternatively  $Z_1$  -  $Z_2$  may further contain a carboxamide, sulfone, sulfonamide, alkenylene, alkynylene, or acyl group;

wherein the carbon and nitrogen atoms of  $Z_1$  -  $Z_2$  are optionally substituted by alkyl, alkoxy, thioalkyl, alkylsulfone, aryl, alkoxyalkyl, hydroxy, alkylamino, heteroaryl, alkenyl, alkynyl, carboxyalkyl, halogen, haloalkyl or acylamino;

wherein  $Z_2$  -  $Z_1$  is attached to at the para or meta position relative to the  $X_1$  substituent;

n is an integer 1 or 2;

R<sup>c</sup> is selected from the group consisting of hydrogen; alkyl; halogen, hydroxy, nitro, alkoxy, amino, haloalkyl, aryl, heteroaryl, alkoxyalkyl, aminoalkyl, hydroxyalkyl, thioalkyl, alkylamino, arylamino, alkylsulfonylamino, acyl, acylamino, sulfonyl, sulfonamide, allyl, alkenyl, methylenedioxy, ethylenedioxy, alkynyl, alkynylalkyl, carboxy, alkoxycarbonyl, carboxamido, cyano, and -(CH<sub>2</sub>)<sub>n</sub> COR wherein n is 0-2 and R is selected from hydroxy, alkoxy, alkyl and amino;

 $X_1$  is selected from the group consisting of -O-, CO, SO<sub>2</sub>, NR<sup>m</sup> and (CHR<sup>p</sup>)<sub>q</sub>; wherein R<sup>m</sup> is H or alkyl; R<sup>p</sup> is H, alkyl; alkoxy or hydroxy; q is 0 or 1;

5

 $X_2$  is selected from the group consisting of -CHR $^e$ -, CO, SO<sub>2</sub>, O, NR $^f$  and S; wherein R $^f$  is H or alkyl;

R<sup>e</sup> is selected from the group consisting of H, alkyl, hydroxy and alkoxy;

10

X or Y are independently selected from the group consisting of -CR<sup>9</sup>-or -N- wherein R<sup>9</sup> is selected from the group consisting of H, alkyl, haloalkyl, fluoro, alkoxyalkyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, alkylsulfone, hydroxyalkyl, hydroxy, alkoxy, and carboxyalkyl;

15

optionally the group X-X<sub>2</sub>-Y contains a moiety selected from the group consisting of acyl, alkyl, amino, ether, thioether, sulfone and olefin;

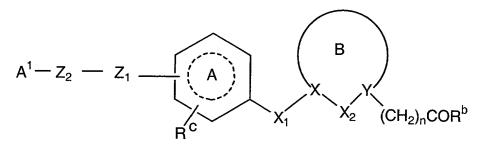


20

membered bicyclic system; optionally saturated or unsaturated; the monocyclic ring system optionally containing 1-2 heteroatoms selected from N, O and S; the bicyclic ring system optionally containing 1-4 heteroatoms selected from N, O and S, or optionally containing the group such as SO<sub>2</sub> or CO; and optionally substituted with one or more substituent selected from the group consisting of alkyl, halogen, cyano, carboalkoxy, haloalkyl, alkoxyalkyl, alkylsulfone, aryl, heteroaryl, arakyl, heteroarakyl, or alkoxy;

 $R^b$  is  $X_3$  -  $R^h$  wherein  $X_3$  is selected from the group consisting of O, S and  $NR^j$  wherein  $R^h$  and  $R^j$  are independently selected from the group consisting of H, alkyl, acyl, aryl, aralkyl and alkoxyalkyl; and

- 5 and n is 0 or 1.
  - 2. A compound according to the claim 1,



10 wherein

A<sup>1</sup>, Z<sub>1</sub>, Z<sub>2</sub>, R<sup>b</sup>, R<sup>c</sup>, are as described in claim 1;

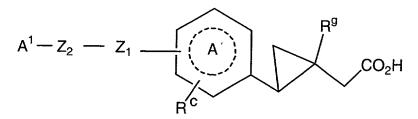
 $X_1$  is  $(CHR^p)_q$ ; wherein q = 0;

B is a 3-, 4-, or a 5-membered ring obtained by combining X-X<sub>2</sub>-Y;

A is a phenyl ring substituted with Rc;

15 n = 1

3. A compound according to the claim 2,



wherein the ring B is a 3-member cyclopropyl ring;  $Y = CR^9$ :

wherein R<sup>g</sup> is selected from the group consisting of H, alkyl, haloalkyl, alkoxyalkyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, alkylsulfone, hydroxyalkyl, hydroxy, alkoxy, and carboxyalkyl;

A is a phenyl ring substituted with  $R^c$ ;  $R^b = OH$  4. A compound according to the claim 3 wherein R<sup>9</sup> is selected from the following substituents/groups

$$R_1 = H$$
, alkyl, OMe,  $X = CH_2$ ,  $O$ 
 $R_1 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_1 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_1 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_1 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_1 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_1 = H$ , Me

 $R_1 = H$ , Me

 $R_1 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_2 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_3 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_3 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_3 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_3 = H$ , alkyl, OMe,  $OH$ , halogen

 $R_3 = H$ , alkyl, OMe,  $OH$ , halogen

H, alkyl,  $CH_2B_1R$  ( $B_1 = O$ ,  $SO_2$ , S, CO; R = alkyl, aryl),  $CH_2OH$ , Aryl Ar

5 5. A compound according to the claim 3 wherein A<sup>1</sup> is selected from the following ring systems

$$X = CH_2, O, S, SO_2, CO,$$

$$CF_2, CMe_2$$

$$R = H, Me, OMe, OH$$

$$X = CH_2, O, S, SO_2, CO,$$

$$CF_2, CMe_2$$

$$R = H, Me, OMe, OH$$

$$X = H, Me, OMe, OH$$

$$X = H, Me, OH,$$

$$R = H, Me, OH$$

- 10
- 6. A compound according to the claim 3 wherein ring A is a phenyl ring, and the side chains containing  $Z_1$ - $Z_2$  and  $X_1$ -X are connected para to each other.
- 7. A compound according to the claim 6 wherein the phenyl ring is optionally substituted with one or more substituents selected from the group consisting of alkyl; halogen, hydroxy, alkoxy, haloalkyl,

15

25

aryl, heteroaryl, alkoxyalkyl, sulfonamide, methylenedioxy, ethylenedioxy, alkynyl, and alkynylalkyl;

- 8. A compound according to the claim 6 wherein Z<sub>1</sub> is selected from the group consisting of CH<sub>2</sub>, CH<sub>2</sub>O, O, NR<sub>k</sub>, CO, S, SO, and SO<sub>2</sub>. R<sub>k</sub> is as defined in claim 1
  - 9. A compound according to the claim 6 wherein A<sup>1</sup> is selected from the following ring systems

10. A compound according to the claim 1,

$$A^1-Z_2-Z_1$$

wherein

 $A^1$ ,  $Z_1$ ,  $Z_2$ ,  $R^b$ ,  $R^c$ , are as described in claim 1;

 $X_1$  is  $(CHR^p)_q$ ; wherein q = 0;

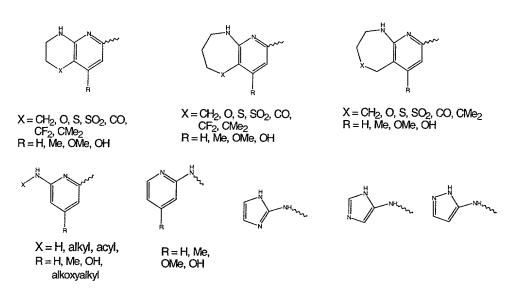
20 A is a phenyl ring substituted with R<sup>c</sup>

B is a 3-member ring obtained by combining X-X<sub>2</sub>-Y;

n = 1

 $R_m$  and  $R_n$  are selected from the group consisting of H, alkyl, halogen, alkoxy, haloalkyl, alkoxyalkyl, alkylsulfone, cyano, carboalkoxy, aryl, heteroaryl, aralkyl and heteroaralkyl.  $R_m$  and  $R_n$  may from a spirocyclic ring system.

11. A compound according to the claim 10 wherein A<sup>1</sup> is selected from the following ring systems:



5 12. The intermediates of formula 2 for their utility in the synthesis of  $\alpha$ vβ3 and/or  $\alpha$ vβ5 integrin antagonists.

HO 
$$R^9$$
  $CO_2H$ 

10 13. A compound according to Claim 1 selected from the group consisting of :

2-[4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropaneacetic acid 2-[4-[3-(2-pyridinylamino)propoxy]phenyl] cyclopentaneacetic acid 3-[4-[3-(2-pyridinylamino)propoxy]phenyl] cyclopentaneacetic acid 2,2-difluoro-3-[4-[3(2-pyridinylamino)propoxy]phenyl]cyclopropaneacetic acid (2-[4-[3-(5-6-7-8-Totrabydro [1-8]paphthyridin 3-yl) athors in based above in the second

(2-{4-[2-(5,6,7,8-Tetrahydro-[1,8]naphthyridin-2-yl)-ethoxy]-phenyl}-cyclopropyl)-acetic acid

20 2-[3-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropaneacetic acid

	(2-{4-[3-(1- <i>H</i> -Pyrazol-3-ylamino)-propoxy]-phenyl}-cyclopropyl)-acetic acid
	(2-{3-Fluoro-4-[3-(1- <i>H</i> -pyrazol-3-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid
5	(1-Methyl-2-{4-[2-(6-methylamino-pyridin-2-yl)-ethoxy]-phenyl}-
	cyclopropyl)-acetic acid
	(2-{4-[2-(6-Ethylamino-pyridin-2-yl)-ethoxy]-phenyl}-1-methyl-
	cyclopropyl)-acetic acid
	[2-(4-{2-[6-(2-Methoxy-ethylamino)-pyridin-2-yl]-ethoxy}-phenyl)-1-
10	methyl-cyclopropyl]-acetic acid
	[2-(4-{2-[6-(3-Methoxy-propylamino)-pyridin-2-yl]-ethoxy}-phenyl)-1-
	methyl-cyclopropyl]-acetic acid
	(2-{4-[2-(6-Acetylamino-pyridin-2-yl)-ethoxy]-phenyl}-1-methyl-
	cyclopropyl)-acetic acid
15	[1-Methyl-2-(4-{2-[6-(2,2,2-trifluoro-ethylamino)-pyridin-2-yl]-ethoxy}-
	phenyl)-cyclopropyl]-acetic acid
	(2-{4-[2-(6-Ethylamino-pyridin-2-yl)-ethoxy]-phenyl}-cyclopropyl)-
	acetic acid
	[2-(4-{2-[6-(2-Methoxy-ethylamino)-pyridin-2-yl]-ethoxy}-phenyl)-
20	cyclopropyl]-acetic acid
	[2-(4-{2-[6-(2,2,2-Trifluoro-ethylamino)-pyridin-2-yl]-ethoxy}-phenyl)-
	cyclopropyl]-acetic acid
	[2-(4-{2-[6-(3-Methoxy-propylamino)-pyridin-2-yl]-ethoxy}-phenyl)-
	cyclopropyl]-acetic acid
25	(2-{4-[2-(6-Acetylamino-pyridin-2-yl)-ethoxy]-phenyl}-cyclopropyl)-
	acetic acid

- 14. A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 and a pharmaceutically acceptable carrier.
- 15. A pharmaceutical composition comprising a therapeutically effective amount of a compound of claims 2-13 and a pharmaceutically acceptable carrier.

	2-[2-methoxy-4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropane-
	acetic acid
	2-[2-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropane-
	acetic acid
5	2-[3-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropaneacetic
	acid
	2-[2-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropaneacetic
	acid
	2-[4-[2-[6-(methylamino)-2-pyridinyl]ethoxy]phenyl]cyclopropane-
10	acetic acid
	2-[4-[2-(3,4-dihydro-2 <i>H</i> -pyrido[3,2- <i>b</i> ]-1,4-oxazin-6-yl)ethoxy]phenyl]-
	cyclopropaneacetic acid
	3-[4-[3-(2-pyridinylamino)propoxy]phenyl]cyclobutaneacetic acid
	(2-{2-Methoxy-4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-cyclopropyl)-
15	acetic acid
	(2-{2-Fluoro-4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-cyclopropyl)-
	acetic acid
	(2-{2-Acetoxy-4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-cyclopropyl)-
	acetic acid
25	(1-Methyl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-cyclopropyl)-
	acetic acid
	(1-Methoxymethyl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid
	(1-Methanesulfonylmethyl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-
	phenyl}-cyclopropyl)-acetic acid
	(1-Pyridin-3-yl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid
	(1-Benzo[1,3]dioxole-5-yl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-
	phenyl}-cyclopropyl)-acetic acid  (1. (2.3. Dibydro bonzefyran 6. vl), 2. (4. [3. (pyridin 3. ylamina), propoyyl
30	(1-(2,3-Dihydro-benzofuran-6-yl)-2-{4-[3-(pyridin-2-ylamino)-propoxy]-
	phenyl}-cyclopropyl)-acetic acid (1-lsovazol-3-yl-2-(4-[3-(pyridin-2-ylamino)-propoyyl phonyl)-
	(1-Isoxazol-3-yl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid

	(1-lsoxazol-5-yl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid
	(1-Oxazol-5-yl-2-{4-[3-(pyridin-2-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid
5	(2-{4-[3-(Pyridin-2-ylamino)-propoxy]-phenyl}-1-thiazol-5-yl-
	cyclopropyl)-acetic acid
	(1-Methyl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-ethoxy]-
	phenyl}-cyclopropyl)-acetic acid
	(1-Methoxymethyl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-
10	ethoxy]-phenyl}-cyclopropyl)-acetic acid
	(1-Methanesulfonylmethyl-2-{4-[2-(5,6,7,8-tetrahydro-
	[1,8]naphthyridin-2-yl)-ethoxy]-phenyl}-cyclopropyl)-acetic acid
	(1-Pyridin-3-yl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-
	ethoxy]-phenyl}-cyclopropyl)-acetic acid
15	(1-(2,3-Dihydro-benzofuran-6-yl)-2-{4-[2-(5,6,7,8-tetrahydro-
	[1,8]naphthyridin-2-yl)-ethoxy]-phenyl}-cyclopropyl)-acetic acid
	(1-Benzo[1,3]dioxol-5-yl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-
	2-yl)-ethoxy]-phenyl}-cyclopropyl)-acetic acid
	(1-lsoxazol-3-yl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-
20	ethoxy]-phenyl}-cyclopropyl)-acetic acid
	(1-lsoxazol-5-yl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-
	ethoxy]-phenyl}-cyclopropyl)-acetic acid
	(1-Oxazol-5-yl-2-{4-[2-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-
	ethoxy]-phenyl}-cyclopropyl)-acetic acid
25	(2-{4-[2-(5,6,7,8-Tetrahydro-[1,8]naphthyridin-2-yl)-ethoxy]-phenyl}-1-
	thiazol-5-yl-cyclopropyl)-acetic acid
	(2-{4-[3-(1- <i>H</i> -Imidazol-2-ylamino)-propoxy]-phenyl}-cyclopropyl)-
	acetic acid
	(2-{3-Fluoro-4-[3-(1- <i>H</i> -imidazol-2-ylamino)-propoxy]-phenyl}-
30	cyclopropyl)-acetic acid
	(2-{3-Fluoro-4-[3-(3- <i>H</i> -imidazol-4-ylamino)-propoxy]-phenyl}-
	cyclopropyl)-acetic acid
	(2-{4-[3-(3- <i>H</i> -Imidazol-4-ylamino)-propoxy]-phenyl}-cyclopropyl)-

acetic acid

10

- 16. A pharmaceutical composition comprising a therapeutically effective amount of atleast one compound of claim 1 and a pharmaceutically acceptable carrier/or additive and optionally other active ingredient
- 17. A pharmaceutical composition comprising a therapeutically effective amount of atleast one compound of claims 2-15 and a pharmaceutically acceptable carrier/or additive and optionally other active ingredient
- 18. .A method for treating conditions mediated by the  $\alpha_V \beta_3$  integrin in a mammal in need of such treatment comprising administering an effective  $\alpha_V \beta_3$  inhibiting amount of a compound of Claim 1.
- 19. A method for treating conditions mediated by the  $\alpha_V \beta_3$  integrin in a mammal in need of such treatment compirisng administering an effective  $\alpha_V \beta_3$  inhibiting amount of a compound of Claims 2-13.
- 20. The method according to Claim 16 wherein the condition treated is tumor metastasis.
  - 21. The method according to Claim 17 wherein the condition treated is tumor metastasis.
- 25 22. The method according to Claim 16 wherein the condition treated is solid tumor growth.
  - 23. The method according to Claim 17 wherein the condition treated is solid tumor growth.
  - 24. The method according to Claim 16 wherein the condition treated is angiogenesis.

25

- 25. The method according to Claim 17 wherein the condition treated is angiogenesis.
- The method according to Claim 16 wherein the condition treated isosteoporosis.
  - 27. The method according to Claim 17 wherein the condition treated is osteoporosis.
- 10 28. The method according to Claim 16 wherein the condition treated is humoral hypercalcemia of malignancy.
  - 29. The method according to Claim 17 wherein the condition treated is humoral hypercalcemia of malignancy.
  - 30. The method according to Claim 16 wherein the condition treated is smooth muscle cell migration.
- 31. The method according to Claim 17 wherein the condition treated is smooth muscle cell migration.
  - 32. The method according to Claim 16 wherein restenosis is inhibited.

The contraction of the contracti

- 33. The method according to Claim 17 wherein restenosis is inhibited.
  - 34. The method according to Claim 16 wherein atheroscelorosis is inhibited.
- 35. The method according to Claim 17 wherein atheroscelorosis is inhibited.
  - 36. The method according to Claim 16 wherein macular degeneration is inhibited.

15

- 37. The method according to Claim 17 wherein macular degeneration is inhibited.
- 38. The method according to Claim 16 wherein retinopathy is inhibited.
- 39. The method according to Claim 17 wherein retinopathy is inhibited.
- 40. The method according to Claim 16 wherein arthritis is inhibited.
- 10 41. The method according to Claim 17 wherein arthritis is inhibited.
  - 42. A method for treating conditions mediated by the  $\alpha_V \beta_5$  integrin in a mammal in need of such treatment comprising administering an effective  $\alpha_V \beta_5$  inhibiting amount of a compound of Claim 1.
  - 43. A method for treating conditions mediated by the  $\alpha_V \beta_5$  integrin in a mammal in need of such treatment compirisng administering an effective  $\alpha_V \beta_5$  inhibiting amount of a compound of Claim 2.
- 20 44. The method according to Claim 40 wherein the condition treated is tumor metastasis.
  - 45. The method according to Claim 41 wherein the condition treated is tumor metastasis.
  - 46. The method according to Claim 40 wherein the condition treated is solid tumor growth.
- The method according to Claim 41 wherein the condition treated is solid tumor growth.

And the state of t

- 48. The method according to Claim 40 wherein the condition treated is angiogenesis.
- 49. The method according to Claim 41 wherein the condition treated is angiogenesis.
  - 50. The method according to Claim 40 wherein the condition treated is osteoporosis.
- 10 51. The method according to Claim 41 wherein the condition treated is osteoporosis.
  - 52. The method according to Claim 40 wherein the condition treated is humoral hypercalcemia of malignancy.
  - 53. The method according to Claim 41 wherein the condition treated is humoral hypercalcemia of malignancy.
- 54. The method according to Claim 40 wherein the condition treated is smooth muscle cell migration.
  - 55. The method according to Claim 41 wherein the condition treated is smooth muscle cell migration.
- 25 56. The method according to Claim 40 wherein restenosis is inhibited.
  - 57. The method according to Claim 41 wherein restenosis is inhibited.
- 58. The method according to Claim 40 wherein atheroscelorosis is inhibited.
  - 59. The method according to Claim 41 wherein atheroscelorosis is inhibited.

- 60. The method according to Claim 40 wherein macular degeneration is inhibited.
- 61. The method according to Claim 41 wherein macular degeneration is inhibited.
  - 62. The method according to Claim 40 wherein retinopathy is inhibited.
  - 63. The method according to Claim 41 wherein retinopathy is inhibited.
  - 64. The method according to Claim 40 wherein arthritis is inhibited.
  - 65. The method according to Claim 41 wherein arthritis is inhibited.